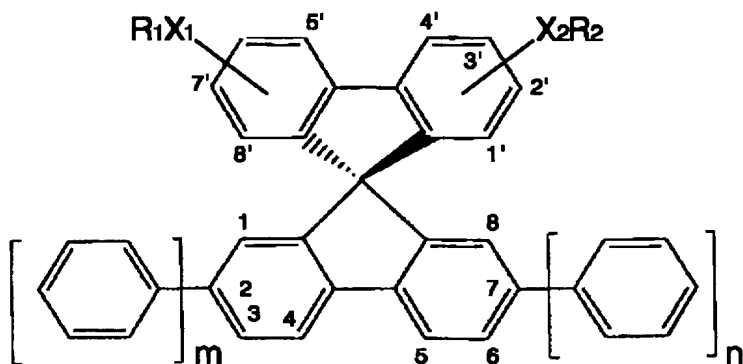


What is claimed is:

1. A bisphenylene-spirobifluorene compound defined by the following formula:



wherein R₁ and R₂ are identical or different and are independently a straight-chain or branched alkyl group having from 1 to 22 carbon atoms, X₁ and X₂ independently contains one or more elements selected from the group consisting of C, O, N, S, Si and Ge, and m and n are integers from 1 to 4.

2. The bisphenylene-spirobifluorene compound according to claim 1, wherein X₁R₁ and X₂R₂ are at 1',6'-positions.

3. The bisphenylene-spirobifluorene compound according to claim 1, wherein X₁R₁ and X₂R₂ are at 3',6'-positions.

4. A method of preparing bisphenylene-spirobifluorene compound comprising the steps of:

forming a biphenyl compound having X₁R₁ and X₂R₂ in which R₁ and R₂ are identical or different and are independently a straight-chain or branched alkyl group having from 1 to 22 carbon atoms, and X₁ and X₂ independently contains one or more elements selected from the group consisting of C, O, N, S, Si and Ge;

forming a biphenyl-halogenated fluorenone compound having the X₁R₁ and X₂R₂ by reacting the biphenyl compound with halogenated fluorenone;

forming a halogenated spirobifluorene compound having the X_1R_1 and X_2R_2 from the biphenyl-halogenated fluoreneol compound by cyclization; and forming a bisphenylene-spirobifluorene compound having the X_1R_1 and X_2R_2 by substituting halogen of the halogenated spirobifluorene compound by a phenyl group.

5. The method according to claim 4, wherein in the step of forming the biphenyl-halogenated fluoreneol compound, a metal-halogen ligand substitution reaction is employed.

6. An electroluminescence (EL) material comprising the bisphenylene-spirobifluorene compound claimed in any one of claims 1 through 3.

7. The EL material according to claim 6, wherein the bisphenylene-spirobifluorene compound is contained in an amount of 10% by weight or more.

8. An electroluminescence (EL) device comprising:
a cathode;
an anode; and
a light-emitting layer interposed between the cathode and the anode and containing the EL material as claimed in one of claims 1 through 3.

9. The EL device according to claim 8, wherein the bisphenylene-spirobifluorene compound is contained in the light emitting layer in an amount of 10% to 100% by weight.